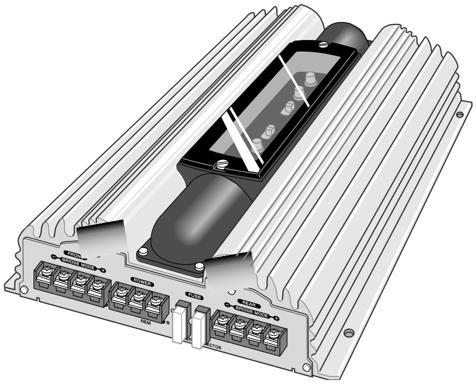
JVC

SERVICE MANUAL

POWER AMPLIFIER

KS-AX4500



Area Suffix
E --- Continental Europe
J ------ Northern America

Caution
If electricity is connected during disassembly, it must be a no load current. If it is load current, be sure to attach a heat sink to the power-amp IC. This will be damaged if the above precautions are not followed, as it does not have a sub heat sink attached to it.

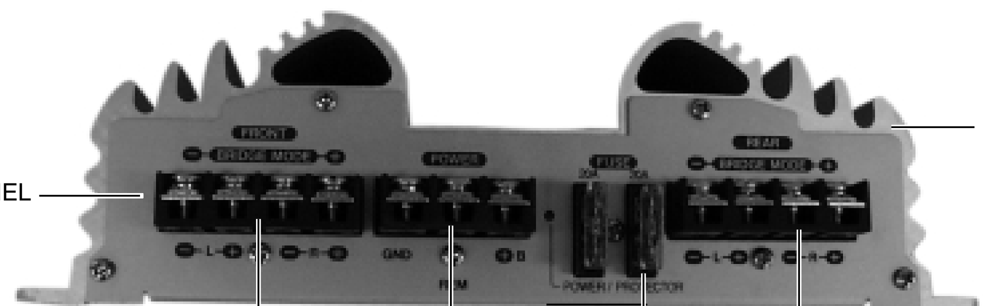
Contents

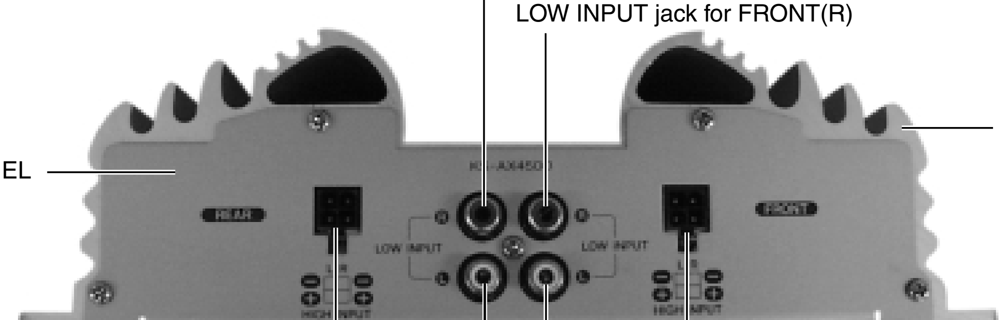
No. 49622
Apr. 2001

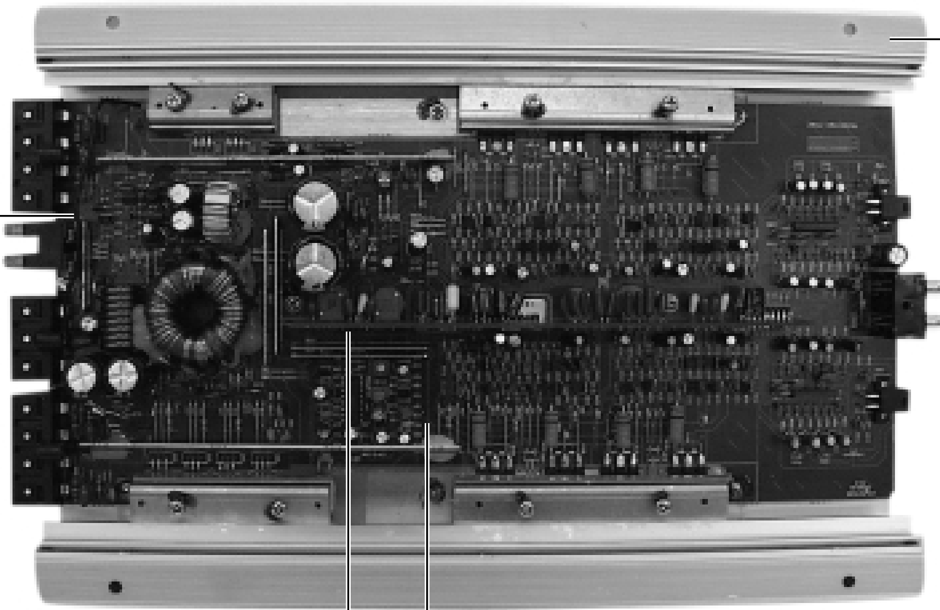
⚠ ***CAUTION*** **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

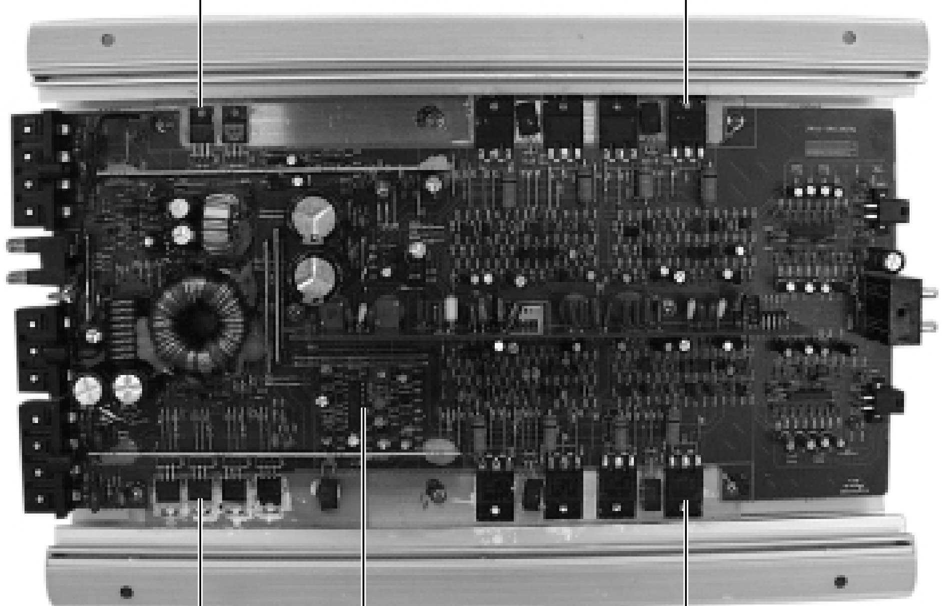
Location of main parts








HEAT SINK
(Bottom view)
GND wire
MAIN PCB
SUB PCB


DIODE
POWER TRANSISTER
POWER FET
MAIN PCB
POWER TRANSISTER

Removal of main parts

CAUTION: If electricity is connected during disassembly, it must be a no load current. If it is load current, be sure to attach a heat sink to the power-amp IC. This will be damaged if the above precautions are not followed, as it does not have a sub heat sink attached to it.

■Removing the bottom cover (see Fig. 1)

1. From the bottom side of the main unit, remove the 4 screws A retaining the bottom cover.
2. Then remove the 6 screws B retaining the bottom cover.
3. Remove the bottom cover.

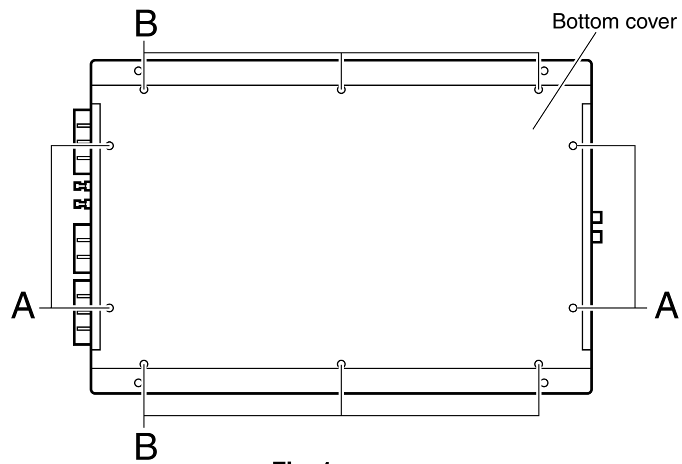


Fig. 1

■Removing the MAIN PCB (see Fig. 2 to 8)

1. Remove the bottom cover from the main unit.
2. Loosen and remove the 2 screws C retaining the top plate on the main unit. (Stoppers are attached to the backs of the C screws so that they cannot be removed easily.)

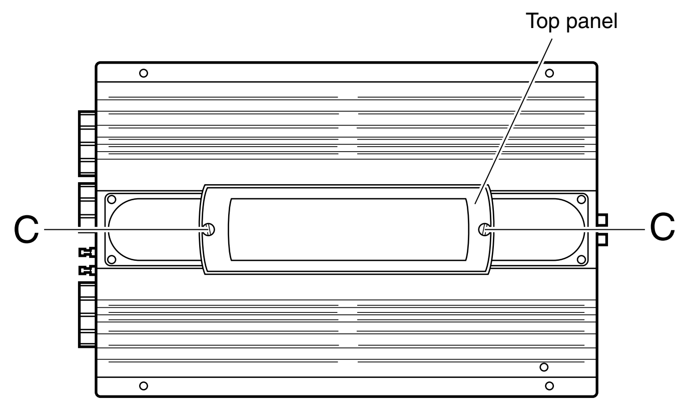


Fig. 2

3. Remove the 4 volume knobs on top of the control panel. If it cannot be pulled out easily, insert a rope or wire between the base of the volume knob and the control panel so that the volume knob is raised a little above the surface and then remove it. ***(Be careful when inserting a lever etc. not to scratch the surface of the control panel).***
4. Remove the 4 screws D retaining the control panel. Then detach the control panel and the switch knobs.

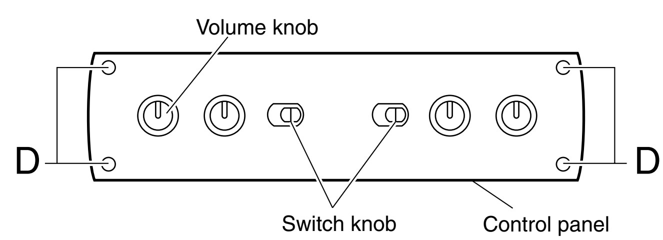


Fig. 3

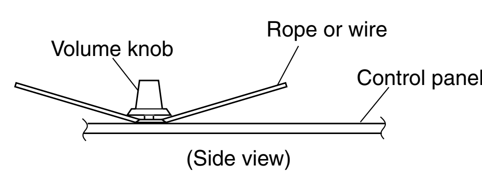


Fig. 4

5. Remove the 13 screws E retaining the panels on both sides of the main unit.

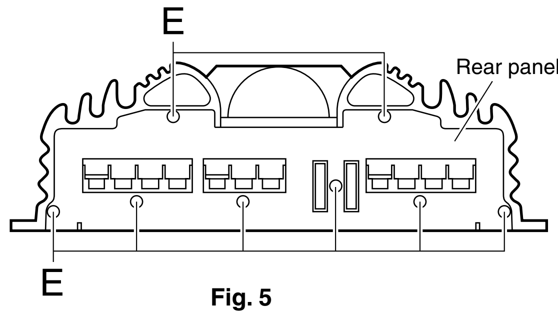


Fig. 5

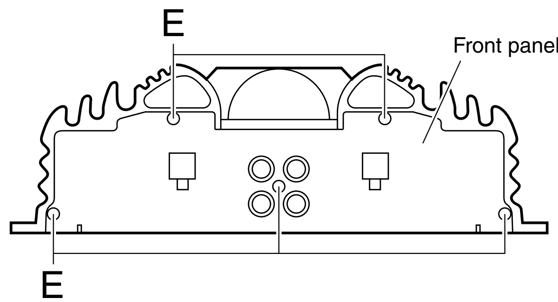


Fig. 6

6. Remove the 14 screws F attaching the MAIN PCB to the bottom of the main unit.

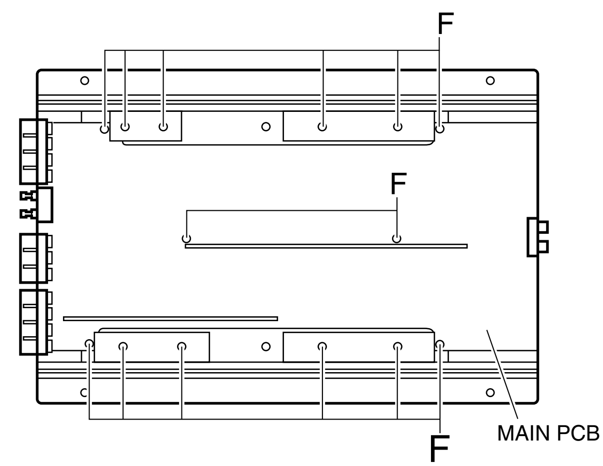


Fig. 7

7. Remove the MAIN PCB by lift up the arrow mark.

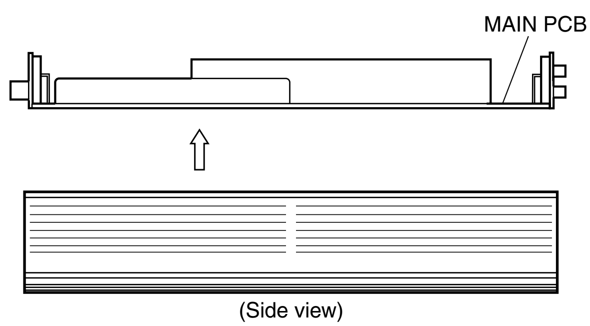
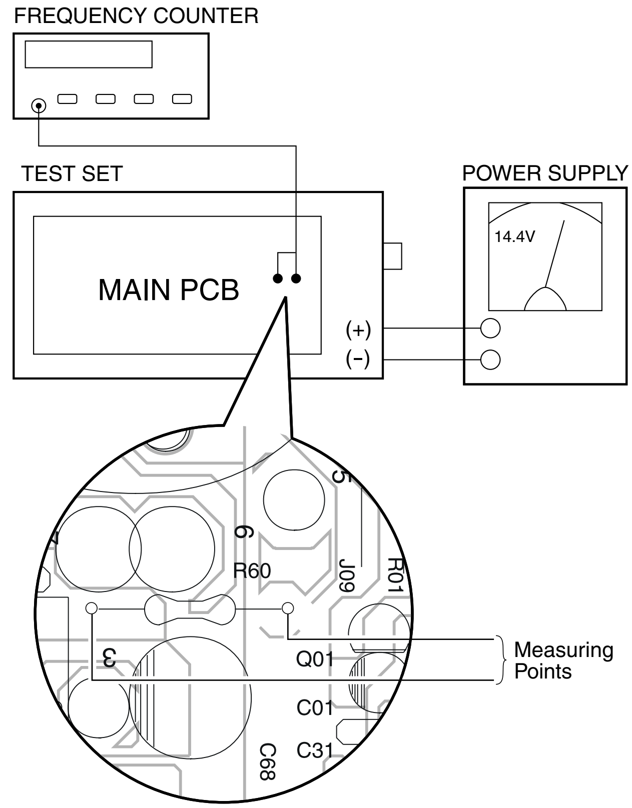


Fig. 8

Test method

1. Check the voltage and frequency of the secondary toroidal coil.

   FREQUENCY:22.87kHz ± 50Hz
   VOLTAGE VALUE:60Vp-p ± 2.5V



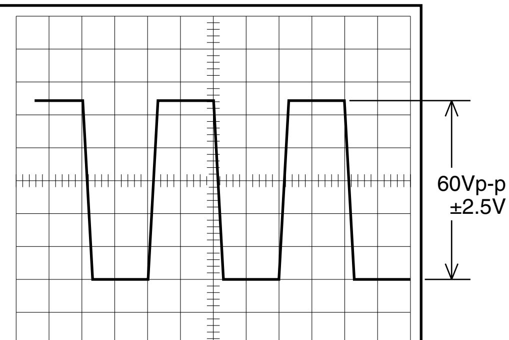
MAIN PCB

2. Measure the secondary toroidal coil, if the standard frequency value of 22.87 kHz ± 50 Hz is not attained, measure the R60 terminal, then adjust the SV01 so that the R60 terminal becomes 22.87 kHz ± 50Hz.

   Note: When measuring, adjust and apply power with no signal or load on each board.

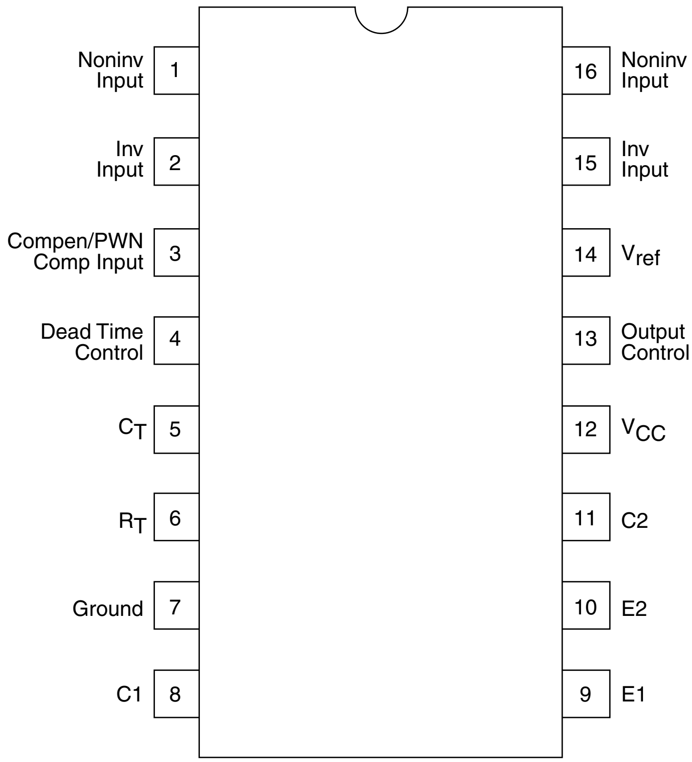
DC/DC CONVERTER SECOND GENERATOR SWITCHING

TEST ITEM	SPECIFICATION	CONDITION
VOLTAGE TEST	60Vp-p±2.5V	OSCILLOSCOPE VOLT/DIV: 10 TIME/DIV: 10mcec
FREQUENCY CHECK	22.87KHz±50Hz	



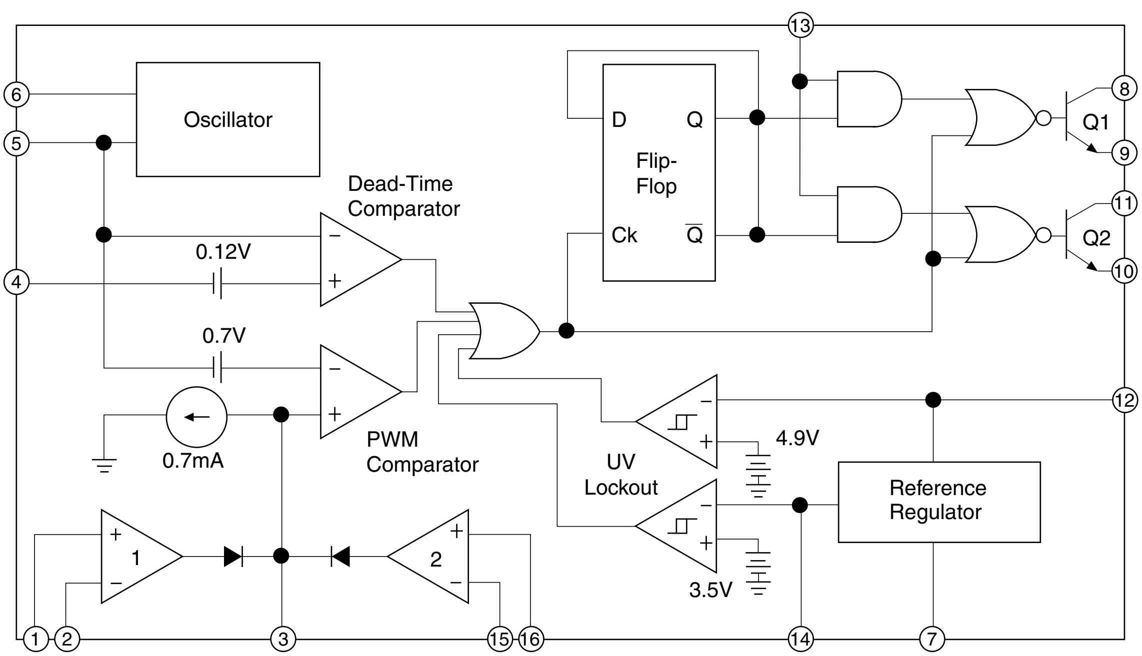
Description of major ICs

PIN CONNECTIONS



(TOP View)

TL494



JVC
VICTOR COMPANY OF JAPAN, LIMITED
MOBILE ELECTRONICS DIVISION
PERSONAL & MOBILE NETWORK B.U. 10-1,1Chome,Ohwatari-machi,Maebashi-city,Japan

(No. 49622)

Printed in Japan
200104(S)